



## Equipment you can expect to see



### Compressors

**Purpose:** Run all pneumatic tools

Used during the demolition of existing structures and rehabilitation of the streets and alleys. These provide the forced air that runs pneumatic tools, e.g. jack hammers and small drills.



### Drill Rigs

**Purpose:** Drill deep foundation shafts

Used to drill foundation shafts needed to support the new track structure. The shafts will range from 4 to 8 feet wide and depths ranging from 50 to 80 feet deep.



### Skid Steer Loaders

**Purpose:** Roadway and pavement removal and replacement

Used during roadway and pavement removal and replacement.



### Telescopic Crane

**Purpose:** Heavy Hoisting

Used to lift materials, such as drilled shaft rebar cages and gantry components.





# Equipment you can expect to see



## Excavators

**Purpose:** Earth work

Used for all earth work, e.g. digging foundations, dirt removal, sewer installations, and demolition of existing steel structures.



## Rough Terrain Crane

**Purpose:** Hoisting

Used for steel erection, rebar installation, track work, and to assist with drilled foundations work, as well as forming and pouring of new foundations and piers.



## Vibratory Sheet Installer

**Purpose:** Sheet pile installation

Used to install and remove sheet piling into the existing embankment to hold the structure in place while construction ramps are built and in use. Ramps will be used so equipment can safely and easily be moved up onto the existing track structures.



## Wheel Loaders

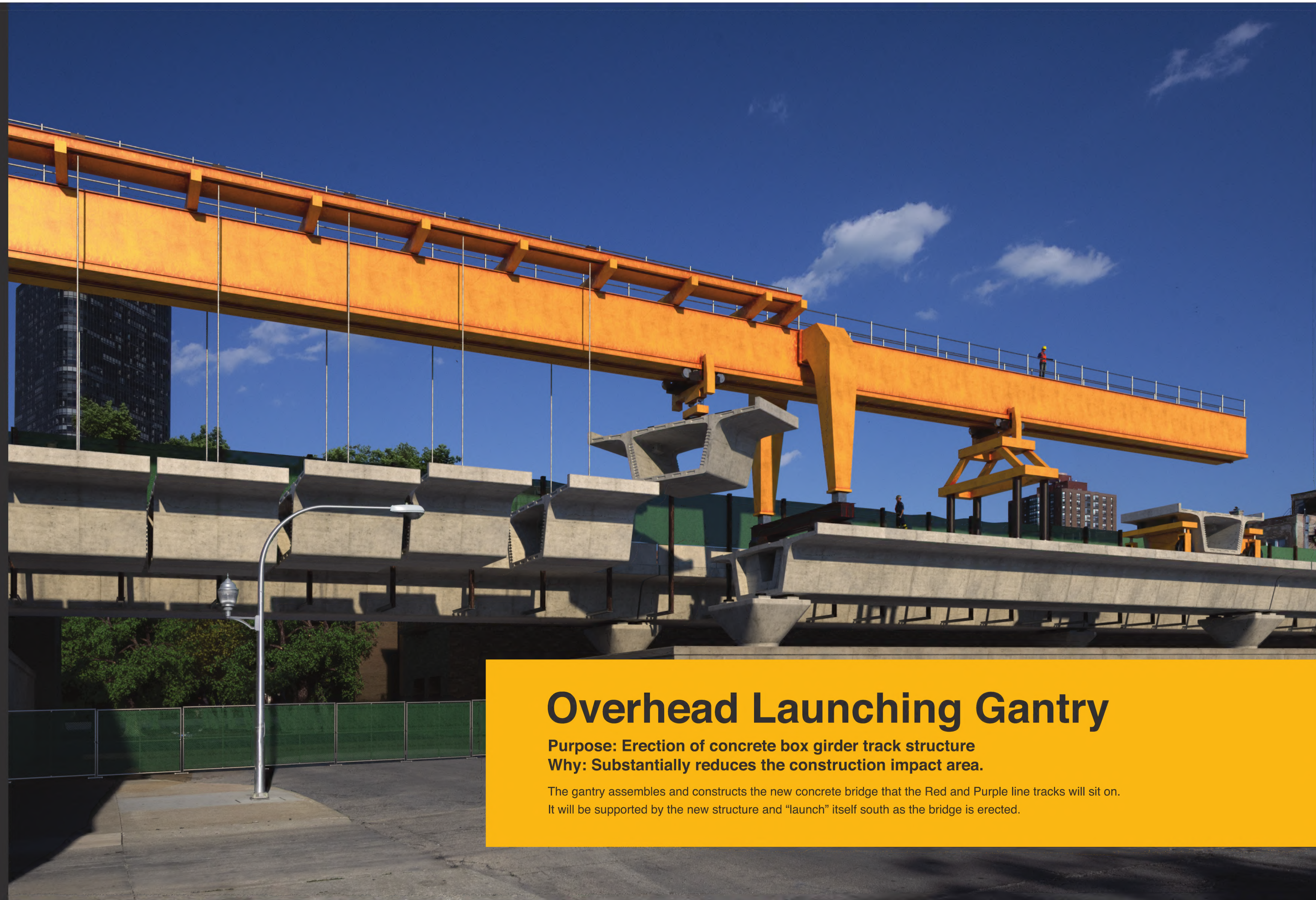
**Purpose:** Dirt removal

Used for foundation work and demolition of existing structures. Removes dirt from site and moves materials around site.





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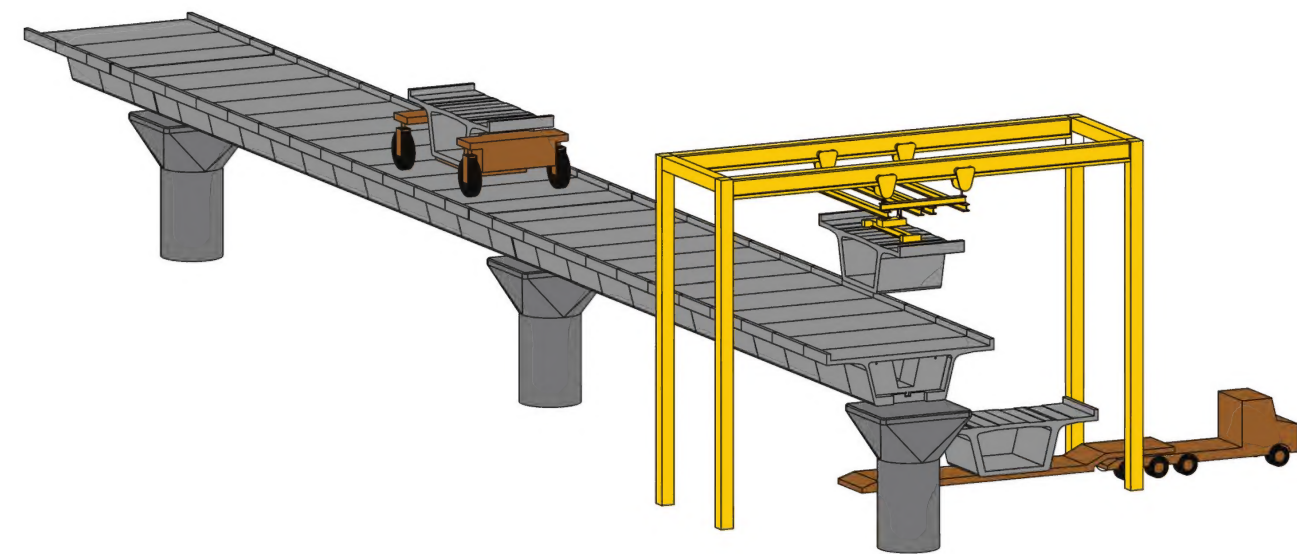


## Overhead Launching Gantry

**Purpose:** Erection of concrete box girder track structure

**Why:** Substantially reduces the construction impact area.

The gantry assembles and constructs the new concrete bridge that the Red and Purple line tracks will sit on. It will be supported by the new structure and "launch" itself south as the bridge is erected.



## Loading Bay Gantry

**Purpose:** Lift concrete segments off the truck and on to the segment transporter on the bridge deck

A segment loading bay gantry will be used to lift precast concrete segments off the truck and on to the segment transporter, which will then carry the individual segments to the launching gantry. This loading bay gantry will be erected at strategic cross street locations and re-mobilized along the alignment to minimize segment delivery impacts. It will only be erected at one location at a time. Anticipated locations at this time include Ardmore, Balmoral, Ainslie, Catalpa and Winona.

### Approach that reduces impacts

By using this specialized gantry, the construction impact zone is reduced substantially. This top-down erection method using the gantry requires limited street access points, reduces slow zones during construction and minimizes impacts to the public and CTA services.